

**Amendments to the Claims:**

Claims 1-28 were pending in this application. Claims 1 and 6 have been amended. Claims 2 and 3 have been cancelled.

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1 1. (currently amended) A method of queuing calls to a subscriber of  
2 queuing services accessed through a subscriber line, the method comprising:  
3 provisioning Call Forward on Busy Line on the subscriber line to  
4 permit detecting a call to the subscriber line at a local switch connected to the  
5 subscriber line;  
6 if the subscriber line is busy, forwarding the call to an intelligent  
7 peripheral within an Advanced Intelligent Network (AIN) telecommunications  
8 system;  
9 queuing the call to the subscriber in the intelligent peripheral ~~in a~~  
10 ~~intelligent peripheral, the intelligent peripheral within an Advanced Intelligent~~  
11 ~~Network (AIN) telecommunications system;~~  
12 determining that the subscriber line is not busy; and  
13 if a call is queued in the intelligent peripheral and the subscriber line  
14 is determined to be not busy, connecting the call to the subscriber with the subscriber  
15 line.

1 2. (canceled) .

1 3. (canceled) .

1 4. (original) A method of queuing calls as in claim 1 wherein queuing  
2 the call to the subscriber comprises forwarding the subscriber line call to a Direct  
3 Inward Dial telephone number on the intelligent peripheral.

1                   5. (original) A method of queuing calls as in claim 1 wherein  
2 determining that the subscriber line is not busy comprises setting a Next Event List  
3 at the subscriber local switch.

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1                   6. (original) A method of queuing calls as in claim 1 wherein  
2 determining that the subscriber line is not busy comprises:  
3                   ~~provisioning Call Forward on Busy Line on the subscriber line causing~~  
4 ~~the local switch to call the intelligent peripheral when the subscriber line is found to~~  
5 ~~be busy in response to a call to the subscriber line;~~  
6                   dialing the subscriber line from the intelligent peripheral; and  
7                   determining that the subscriber line is busy if the local switch calls the  
8 intelligent peripheral in response to the call to the subscriber line from the intelligent  
9 peripheral.

1                   7. (original) A method of queuing calls as in claim 1 further  
2 comprising  
3                   determining that the call to the subscriber has been queued for a  
4 determined amount of time;  
5                   requesting that a caller placing the call to the subscriber perform an  
6 action to remain in queue; and  
7                   if the caller does not perform the requested action, dequeuing the call.

1                   8. (original) A method of queuing calls as in claim 1 further  
2 comprising:  
3                   receiving a plurality of calls to access the subscriber line;  
4                   placing each received call in the queue associated with the subscriber  
5 line if the subscriber line is busy;  
6                   collecting queue utilization information about each queued call; and  
7                   generating queue utilization statistics based on the collected queue  
8 utilization information.

1                   9. (original) A method of queuing calls as in claim 1 further  
2 comprising placing a call from the intelligent peripheral indicating status of the  
3 queued subscriber line call to the subscriber.

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1                   10. (original) A method of queuing calls as in claim 1 wherein the  
2 intelligent peripheral is a switchless intelligent peripheral.

1                   11. (original) A system for queuing subscriber calls within an  
2 Advanced Intelligent Network (AIN) telecommunications system, each subscriber call  
3 placed by a caller to a subscriber line, the system comprising:

4                   a local switch servicing the subscriber line, the local switch including  
5 Call Forward on Busy Line functionality provisioned on the subscriber line, the Call  
6 Forward on Busy Line functionality forwarding any subscriber call received for the  
7 subscriber line when the subscriber line is busy; and

8                   an intelligent peripheral within the AIN system operative to:

- 9                   (a) receive any forwarded subscriber call from the local switch;  
10                  (b) if queue slots are available in the intelligent peripheral, queue  
11                   the received subscriber call;  
12                  (c) place a busy check call to the subscriber line;  
13                  (d) drop the busy check call if the busy check call is forwarded  
14                   back to the intelligent peripheral from the local switch; and  
15                  (e) connect a queued subscriber call to the busy check call if the  
16                   subscriber line is not busy.

1                   12. (original) A system for queuing subscriber calls as in claim 11  
2 further comprising a service control point in communication with the intelligent  
3 peripheral, the service control point determining if queue slots are available in the  
4 intelligent peripheral.

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1                   13. (original) A system for queuing subscriber calls as in claim 12  
2 further comprising a messaging system, the service control point instructing the  
3 intelligent peripheral to dial the number of the messaging system and to bridge the  
4 received subscriber call to the messaging system call if the service control point  
5 determines no queue slots are available.

1                   14. (original) A system for queuing subscriber calls as in claim 12  
2 wherein the service control point instructs the intelligent peripheral to play a message  
3 to the received subscriber call if the service control point determines no queue slots  
4 are available.

1                   15. (original) A system for queuing subscriber calls as in claim 11  
2 wherein the intelligent peripheral is further operative to request that the caller  
3 perform an action to remain in queue after determining that the subscriber call has  
4 been queued for a determined amount of time and, if the caller does not perform the  
5 requested action, to dequeue the call.

1                   16. (original) A system for queuing subscriber calls as in claim 11  
2 further comprising:  
3                   a plurality of intelligent peripherals, each intelligent peripheral  
4 implementing at least one call queue, each call queue associated with one of a  
5 plurality of subscribers;  
6                   at least one service control point, each intelligent peripheral in  
7 communication with one service control point collecting information about each  
8 queued call; and  
9                   a data server in communication with the at least one service control  
10 point, the data server aggregating queue utilization data for each subscriber.

1                   17. (original) A system for queuing subscriber calls as in claim 16  
2 further comprising at least one data distributor, each data distributor in

3 communication with a service control point and the data server, each data distributor  
4 receiving information about each queued call from the service control point and  
5 periodically forwarding the information to the data server.

A 1 18. (original) A system for queuing subscriber calls as in claim 16  
2 further comprising a data publishing platform in communication with the data server,  
3 the data publishing platform aggregating subscriber queue utilization data across a  
4 plurality of report periods.

1 19. (original) A system for queuing subscriber calls as in claim 11  
2 wherein the intelligent peripheral is further operative to place a status call providing  
3 status information to the subscriber about at least one queued call.

1 20. (original) A system for queuing subscriber calls as in claim 11  
2 wherein the intelligent peripheral is a switchless intelligent peripheral.

1 21. (original) A method for queuing subscriber calls comprising:  
2 provisioning a subscriber line with Call Forward on Busy Line  
3 functionality at a local switch servicing the subscriber line;  
4 receiving a subscriber call destined for the subscriber line at the local  
5 switch;  
6 if the subscriber line is busy, forwarding the received call to a Direct  
7 Inward Dial telephone number on an intelligent peripheral via the Call Forward on  
8 Busy Line functionality;  
9 receiving the forwarded call at the intelligent peripheral; and  
10 queuing the forwarded call at the intelligent peripheral if the intelligent  
11 peripheral has at lease one available queue slot.

1 22. (original) A method for queuing subscriber calls as in claim 21  
2 further comprising calling a messaging service from the intelligent peripheral if the

3 intelligent peripheral has no available queue slots and bridging the forwarded call  
4 with the messaging service call.

A 1 23. (original) A method for queuing subscriber calls as in claim 21  
2 further comprising playing a message from the intelligent peripheral if the intelligent  
3 peripheral has no available queue slots.

1 24. (original) A method for queuing subscriber calls as in claim 21  
2 further comprising playing a message from the intelligent peripheral to the forwarded  
3 call when queuing the forwarded call.

1 25. (original) A method for queuing subscriber calls as in claim 21  
2 further comprising:  
3 determining that the subscriber call has been queued for a determined  
4 amount of time;  
5 requesting that a caller placing the subscriber call perform an action  
6 to remain in queue; and  
7 if the caller does not perform the requested action, dequeuing the call.

1 26. (original) A method for queuing subscriber calls as in claim 21  
2 further comprising:  
3 receiving a plurality of subscriber calls to access the subscriber line;  
4 placing each received call in the queue associated with the subscriber  
5 line if the subscriber line is busy;  
6 collecting queue utilization information about each queued call; and  
7 generating queue utilization statistics based on the collected queue  
8 utilization information.

1                   27. (original) A method for queuing subscriber calls as in claim 21  
2 further comprising placing a call from the intelligent peripheral indicating status of  
3 the queued subscriber call.

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1                   28. (original) A method for queuing subscriber calls comprising:  
2 queuing at least one subscriber call in an intelligent peripheral;  
3 placing a busy check call from the intelligent peripheral to a subscriber  
4 line;  
5                   receiving the busy check call in a local switch servicing the subscriber  
6 line;  
7                   if the subscriber line is busy, forwarding the busy check call back to  
8 the intelligent peripheral through Call Forward on Busy Line functionality  
9 implemented in the local switch;  
10                  disconnecting the busy check call if the intelligent peripheral receives  
11 back the forwarded busy check call; and  
12                  connecting a queued subscriber call with the busy check call if the  
13 subscriber line is not busy.

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